

DERWENT-ACC-NO: 1998-313449

DERWENT-WEEK: 199828

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TITLE: Production of metal multilayers concentrating
ions of hydrogen⁰ and its isotopes deuterium and tritium
- furthers fusion research by accelerating rate of
deposition over earlier electron beam
vaporisation
methods using sliding discharge technique to
deposit e.g. nickel and palladium on glass or plastic beads

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PRIORITY-DATA: 1996DE-1049511 (November 29, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
DE 19649511 A1	June 4, 1998	N/A
G21B 001/00		003

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
DE 19649511A1	N/A	1996DE-1049511
November 29, 1996		

INT-CL (IPC): G21B001/00, G21G001/10

ABSTRACTED-PUB-NO: DE 19649511A

BASIC-ABSTRACT:

A novel method is offered, to produce metal layers used in cold fusion research. These may enable nuclear reaction of ions of hydrogen (or its isotopes tritium or deuterium, under conditions of high concentration) in host metals (e.g. nickel or palladium).

The ion sources used to produce the metal layers are subjected to sliding or tangential discharges.

USE - Used to produce multilayers concentrating hydrogen isotopes in solid

solution for nuclear reactions involving transmutation and/or energy release.

ADVANTAGE - This patent cites recent (1996) advances in the field of cold fusion, claiming reversible, controlled and predetermined nuclear reactions of low energy hydrogen ions in surfaces or intermediate layers of multilayered metals. These accept large quantities of hydrogen into solid solution.

The development improves deposition rates of thin metallic layers on beads, which are used in this research. Their production is accelerated, especially over electron beam evaporation methods.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE METAL MULTILAYER CONCENTRATE ION HYDROGEN@ ISOTOPE
DEUTERIUM TRITIUM FUSE RESEARCH ACCELERATE RATE DEPOSIT
EARLY ELECTRON BEAM VAPORISE METHOD SLIDE DISCHARGE TECHNIQUE
DEPOSIT NICKEL PALLADIUM GLASS PLASTIC BEAD

DERWENT-CLASS: K05 X14

CPI-CODES: K05-A03;

EPI-CODES: X14-A03;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-096737

Non-CPI Secondary Accession Numbers: N1998-245667